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RCAP RECEIVED
JUL 12 2010

107A-6423-JWH July 6, 2010

Ms. Christine Kump-Mitchell, P.E. Missouri Department of Natural Resources 7545 South Lindbergh Blvd., Suite 210 St. Louis, MO 63125

Re: Revised Groundwater Sampling Plan for Boeing Tract I, Fall 2010 and Future Monitoring Events

Dear Ms. Kump-Mitchell:

We have reviewed the results of the last two years of groundwater analytical data, the two risk assessments (RAM, September 2004 and Tetra Tech, March 2008) and the requirements for plume stability. Based on this review, we recommend that the Fall 2010 and future groundwater monitoring events be modified as discussed in this memorandum.

We recommend reducing the number of wells and the number of analytes being analyzed as follows:

- In some areas there are several wells being monitored in very close proximity when only a few or none are needed to obtain sufficient data. These include Area 1 and Sub-areas 2A, 6C, and 8B.
 We recommend dropping nine wells from future groundwater sampling events.
- 2. We recommend dropping the TPH analyses per our January 12, 2010, memorandum titled *Risk Evaluation of TPH for Indoor Inhalation Pathway*.
- 3. We recommend dropping the dissolved metals analyses.
- We recommend dropping analytes that have been either non-detectable, J-values, and/or below screening values during the past two years.
- We recommend replacing MW-A12 with MW-A13 due to an obstruction at 4.6 feet below top of casing (ft btoc) in MW-A12.
- We replaced MW-A15 with MW-A28 since MW-A15 manway was too small for installation of Snap Sampler® system.

Table 1 attached summarizes the recommended modifications. In the table, the highlighted wells and analytes are recommended to be dropped from the Fall 2010 and future groundwater sampling events.

Please contact me if you have any questions.

Sincerely,

Joseph W. Haake, Group Manager Environment, Health and Safety

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cc: Rich Nussbaum, MDNR Atul Salhotra, RAM Group Bruce Stuart, MDNR

Amber Whisnant, U.S. EPA Region 7

RCRA

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Locat- ion/ Sub-area	Monitoring Well	Shallow(S) Intermediate(I) Deep(D) Backfill(B) Well	No. of Times Sampled		svoc	РСВ	TPH- GRO			As	Ba			tical Methods*		Ĉr.	N	4n	Hg		0	r+6	1
				VOC					Total	Dissolve d	Total	Dissolve d	Total	Dissolve d	Total	Dissolve d	Total	Dissolve d	Total	Dissolve	Total	Dissolve	Comments
rea 1: Ru	nway Protection	Zone (9 wells)																					
	MW-A15	S		Х			X	X															Could not accept Snap Sampler®, rep
	MW-A22	Š	- A	×			×	Х		-	-					-				-	-	-	with MW-A28.
	MW-A23	S	4	X			X	X					-	-	-								
South of	MW-A25	S	2	X			X	X															Most upgradient well in Area 1.
Bldg 45	MW-A26	S	2	X			X	X				-											
1	MW-A27			X													-						Added to replace MW-A15 Mid-gradie
	MW-A28**	S	1	Х			Х	X															in Area 1.
	MW-A29	S	2	X			X	X		17													
Hush	MW-A1	S	- 4	X	-	-	X	X	X	X		-						-		-	-		Sample if NAPL and sheen not present
House	MW-A3	S	2	Х			X	X	Х														downgradient wells in Area 1
rea 2: De	molished Area (8 wells)																					
2.4	MW-A8	S	4						X				X				ν.						Overall higher concentrations in Area 2
2A	MW-A16	S	2				-		X	Ÿ			Ÿ	Ý		-	-	_				-	Cd SL exceedences. No Cd SL exceedences.
	MW-6S	S	11	X			X	X	X	X			X	X									Tro dd 515 chocadallecs.
	MW-81	1	12	X			X	X	X			L	X	X									
	MW-11S** MW-51	S	12 14	X	-		X	X	X	X	10 -	-	X	X				-		-	-	-	
213	MW-8S	S	12	X			X	X	X				X										No Cd SL exceedences.
	MW-111**	1	12	X			X X X X	X X X	X				X X X										
- 1	MW-11D SWMU17-OB-	D	12	X					X														
	1**	В	2	X			X	Х	X				X										
	MW-A12	S	2	х			х	х															Obstruction at 4.6 ft btoc. No SL excee
2C																							
	MW-A13	S	2	X			X	X															Added to replace MW-A12 No SI exceedences.
rea 3: Re	tained Area (6 w	ells)																					
3A	B41MW-18	S	3	X			X	X	X														No SI. exceedences.
3C	B42N6 MW-A4	S	3	X			X	X	-				_								_	-	No SL exceedences.
3D	B41MW-5	S	4	X			X	X	X		X		X				X						No As, Ba, Cd SL exceedences.
202	B41S5D	D	2	X			X	X	X	X	X	X	X	X			X	X					TWAS, Da, Cu St. Carecuches.
	B4MW-9**	S	2				X	x	X	x							X	x	X				Deploy Snap Sampler® system after
3H																							repairs and survey. No As SL exceede
(. CI	B4MW-10 CN Facility (8 we	S	2				X	X	X								X		X				As (J-value) SL exceedence in 2000
- T	MW1						- 22	- 1	2.5		х		х		22								As (J-value) exceedence in 2008, no Ba
6A	3163016	S	11	X			Х	X	X		- 200		200		X								Cr SL exceedences.
	B28MW3 MW7	S	10	X			X	X	X		X		X X		X		X		X				
	B27W3D	S	7	X		-	X	X X X	X	X	X	X	Ŷ	X	X	X	X	Х	X	X			No Ba, Cd, Cr, Hg. PCB SL exceeden
6B	B28MW4	S	4	X			X	X	X	X	X X X	X X	X	X	X	X	X	X	X	X			
	MW3**	S	20	X	X	x	x	x	X	x	x	x	х	x	X	x	X	x	X	X			No Ba, Cd, Cr. Hg, PCB, SVOC SI
	MW9S	S	13	X	Х	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			exceedences. No Ba, Cd, Cr, Hg, PCB SL exceeder
	B25MW1	S	10	X			X	X	X		X		X		X				X		X		100 001 001 001 000 000 000 000 000 000
6C	MW5CS MW5DS	S S	13	X			X	X X X	X		X X X		X X		X		v		X		X		
OC	MWSDS MW8AS**	S	13	X			X	X	X	X	X	X	X	X	X	Х	X		X	Х	X	Х	No Ba, Cd, Cr, VOC SL exceedence
	MW8AD	D	13	X			X	X	X	X	X	X	X	X	X	X X	X		X	X	X	X	
6D	MW6** MW6D	S D	13 12	X					X	- V					X								No Cr SL exceedences
ea 8: Off	ice Complex Nort		12						Λ						^								
8A	MW10S**	S	1.3	X					X	X	X	X			X	X	X	X					No Ba, Cr SL exceedences.
	MW10D**	D	13	X					X	Х	X	X	_		Х	X	X	X			_	_	As (J-value) SL exceedence in 2008. N
8B	MW4	S	10				Х	X	Х	X					X	X							SL exceedences.